

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-10. (Canceled)

11. (Previously Presented) A vehicle speed control system for a vehicle, comprising:

a command vehicle speed variation determining section that calculates a command vehicle speed variation on the basis of a deviation between a vehicle speed and a target vehicle speed set by an operator;

a correction quantity calculating section that detects a lateral acceleration of the vehicle and calculates a correction quantity according to the lateral acceleration;

a command vehicle speed calculating section that calculates a command vehicle speed by subtracting the correction quantity from a first value calculated from at least one of the target vehicle speed set by the operator and a second value calculated from the vehicle speed and the command vehicle speed variation; and

said correction quantity calculation section determining the correction quantity so that the correction quantity becomes smaller as the vehicle speed becomes higher.

12. (Original) The vehicle speed control system as claimed in claim 11, wherein said correction quantity calculating section calculates the lateral acceleration from the vehicle speed and a value obtained by processing one of a steer angle and a yaw rate by means of a low pass filter, calculates the correction quantity according to the lateral acceleration, and varies the correction quantity by varying a cutoff frequency of the low pass filter according to the vehicle speed.

13. (Canceled)

14. (Previously Presented) A method for controlling a vehicle speed of a vehicle, comprising:

calculating a command vehicle speed variation on the basis of a deviation between a vehicle speed and a target vehicle speed set by an operator;

detecting a lateral acceleration of the vehicle;

calculating a correction quantity according to the lateral acceleration;

calculating a command vehicle speed by subtracting the correction quantity from a value calculated from at least one of the target vehicle speed set by the operator and a value calculated based on the vehicle speed and the command vehicle speed variation; and

determining the correction quantity so that the correction quantity becomes smaller as the vehicle speed becomes higher.

15. (Canceled)

16. (Previously Presented) A vehicle speed control system for a vehicle, comprising:

a vehicle speed sensor that senses a vehicle speed of the vehicle;

a command vehicle speed variation determining section, connected to the vehicle speed sensor, that calculates a command vehicle speed variation on the basis of a deviation between the vehicle speed and a target vehicle speed;

a lateral acceleration detector that detects a lateral acceleration of the vehicle;

a correction quantity calculating section, connected to the lateral acceleration detector, that calculates a correction quantity according to the lateral acceleration and the vehicle speed, so that the correction quantity becomes higher as the lateral acceleration becomes higher; and

a command vehicle speed calculating section, connected to the command vehicle speed variation determining section and the correction quantity calculating section, that calculates a command vehicle speed by subtracting the correction quantity from a first value calculated from a sum of the vehicle speed and the command vehicle speed variation when acceleration of the vehicle is requested,

wherein the correction quantity calculating section determines the correction quantity such that the correction quantity becomes smaller as the vehicle speed becomes higher.